## METHOD AND APPARATUS FOR MEASURING THE ACCELERATION OF AN ENGINE

## ABSTRACT OF THE DISCLOSURE

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An apparatus for measuring the acceleration of an engine for use in a race car for matching the engine to the car for a particular racetrack and includes an engine test stand having a base and an inertia shaft mounted thereto coupled to a gear box. The test stand includes an engine cart for mounting the engine thereto and positionable for coupling the engine to the gear box and has a plurality of selectively engageable inertia wheels attached thereto. method includes mounting an engine to the engine cart and positioning the engine cart for alignment with the gear box coupling the engine to the gear box. engine is then accelerated through a predetermined RPM elapsed time range so that measurements of preselected RPMs can be determined and a selected load to simulate a racetrack length.